ICF-C730

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
Australian Model

SPECIFICATIONS

Radio section

Frequency range

	FM	AM
US, CND, PA model	87.6–108MHz	530–1,710kHz
AEP, E, AUS model	87.6–107.5MHz	531–1,602kHz
IT model	87.5–108MHz	526.5–1,606.5kHz

Antennas: FM: FM wire antenna
AM: Built-in ferrite bar antenna

Speaker: Approx. 6.6 cm ($2^5/_8$ inches) dia.
Power output: 200 mW (at 10% harmonic distortion)
Output: Earphone jack (mini jack)
Power requirements: 120 V AC, 60 Hz (US, CND, PA model)
220 V AC, 50 Hz (AEP, IT, E model)
240 V AC, 50 Hz (AUS model)
For the power backup function: 9V DC, one 6F22 battery
Battery life: Approx. 80 hours, using Sony battery S-006P (U)
Dimensions: Approx. 251 × 71 × 158 mm (w/h/d)
($10 \times 2^7/_8 \times 6^1/_4$ inches)
incl. projecting parts and controls
Weight: Approx. 750 g (12 oz) not incl. battery

Design and specifications subject to change without notice.

US, CND, AUS, PA model	AEP, E, IT model
12-hours system	24-hour system
AM 12:00 = midnight PM 12:00 = noon	0:00 = midnight 12:00 = noon

FEATURES

- Dual alarm FM/AM 2-band radio combined with an electric digital alarm clock and sleep timer.
- Choice of awakening to radio alarm, buzzer alarm, or dual alarm: Alarm A (radio) and B (buzzer).
- 24-hour alarm preset system automatically turns alarm on at same time each day.
- DREAM BAR SNOOZE/SLEEP OFF (US, CND, PA model), REPEAT ALARM/SLEEP OFF (AEP, E, IT, AUS model), operable with a feather-light touch, offers functions; snooze alarm and sleep timer turn off.
- You can preset 3 FM stations for easier tuning.
- For private listening, this radio is equipped with an earphone jack.

CND model: Canadian model
IT model: Italian model
AUS model: Australian model
PA model: Panama model

DUAL ALARM FM/AM DIGITAL CLOCK RADIO

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

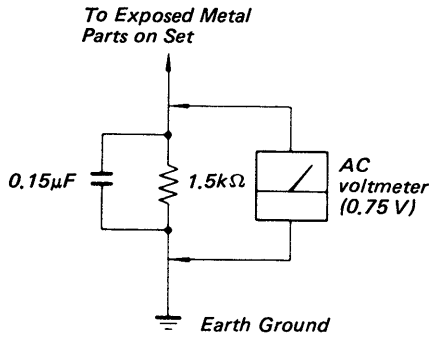


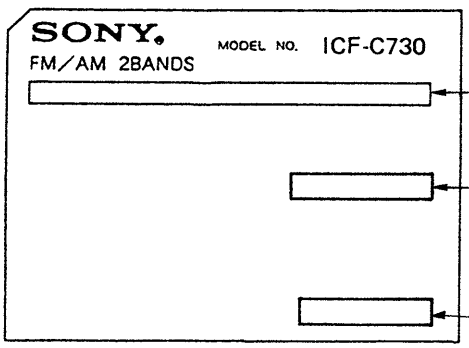
Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

– Model Number Label –

Carved on lower cabinet: **US, CND, AEP, E, IT, PA model (MADE IN TAIWAN)**
Model number label: **US, CND, AEP, IT model (MADE IN JAPAN)**
and AUS model (MADE IN TAIWAN)

CND model: Canadian model
IT model: Italian model
AUS model: Australian model
PA model: Panama model



US, CND, PA model: AC: 120 V 60 Hz 5W
AEP, E, IT model: AC: 220 V ~ 50 Hz 5W
AUS model: AC: 240 V ~ 50 Hz 5W

MADE IN JAPAN: US, CND, AEP, IT model
MADE IN TAIWAN: US, CND, AEP, E, IT, AUS, PA model

3-903-114-01: US, CND model (MADE IN JAPAN)
3-903-115-01: AEP, IT model (MADE IN JAPAN)
3-902-766-01: AUS model (MADE IN TAIWAN)

SAFETY-RELATED COMPONENT WARNING!!

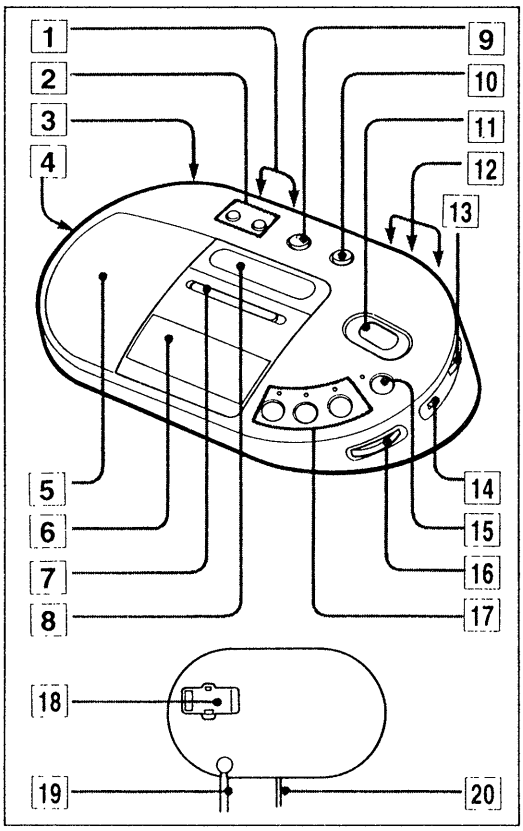
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS

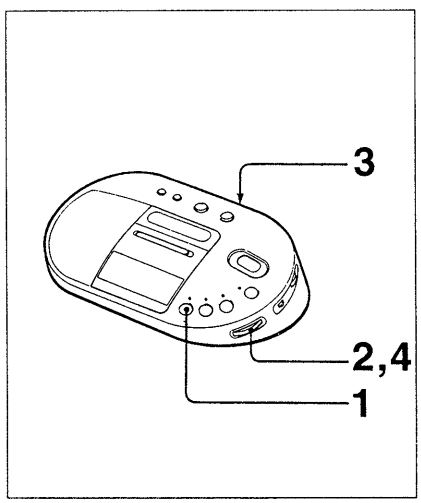


1 TIME SET buttons (H/M) (rear)
2 ALARM set buttons (A RADIO, B BUZZER)
3 CLOCK set button (rear)
4 Earphone jack (side)
5 Speaker
6 Time display
7 Function selector switch (OFF, SINGLE ALARM A RADIO, B BUZZER, DUAL ALARM A RADIO B BUZZER)
8 DREAM BAR SNOOZE/SLEEP OFF bar (US, CND, PA model)
REPEAT ALARM/SLEEP OFF bar (AEP, E, IT, AUS model)
9 SLEEP button
10 ALARM RESET/RADIO OFF button
11 Dial scale
12 FM PRESET tuning controls (rear) (FM 1/FM 2/FM 3)
13 TUNING control
14 BAND selector switch (FM/AM)
15 MANUAL (RADIO ON) button (WAKE UP STATION)
16 VOL (volume) control
17 FM preset (RADIO ON) buttons (recall buttons) (FM1/FM2/FM3)

Bottom
18 Power backup battery compartment
19 AC power cord
20 FM wire antenna

1-2. FUNCTION OF CONTROLS

Preset Tuning Once you preset desired stations, you can tune them in by simple operation.



How to Preset

You can preset up to 3 FM stations (one station for each FM 1, FM 2 and FM 3 buttons).

1 Press FM 1 button.
2 Turn a little to get sound.
3 Tune in the desired FM station with the use of FM 1 preset tuning control.
The station is now preset.
4 Ajust volume.

Preset on FM 2 and FM 3 in the same way.

Note:
No frequencies indicators appear on the display.

To change the preset station
Preset a new station on a desired button.

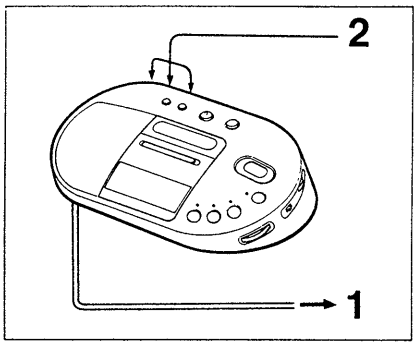
To Tune in a Preset Station

The desired FM stations will be received simply by pressing FM 1, FM 2, and FM 3 buttons after presetting. You do not need to press the MANUAL button or select the band.

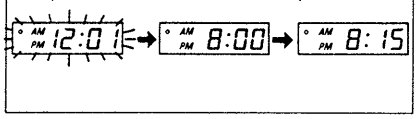
To turn off the radio, press the ALARM RESET/RADIO OFF button.

For private listening, connect an earphone to the earphone jack.

How to Set the Clock



Example: To set to 8:15 AM (12-hours system)



1 Connect the AC power cord to a wall outlet.
Figures will appear and begin to blink.

2 Adjust the clock to the current time with the TIME SET buttons, H (hour) and M (minute), while holding down the CLOCK set button.

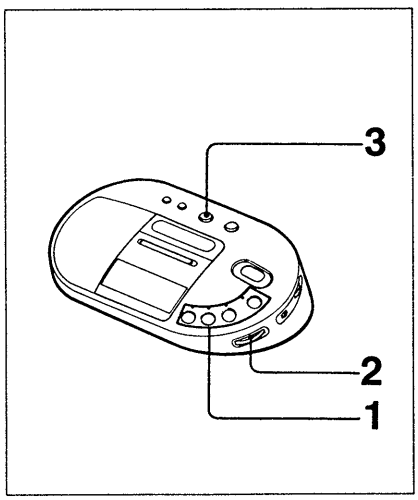
US, CND, AUS, PA model	AEP, E, IT model
12-hours system	24-hour system
AM 12:00 = midnight PM 12:00 = noon	0:00 = midnight 12:00 = noon

The hour and minute digits advance independently. The minute digits return to "00" after reaching "59".

Zero second adjustment
Example: To set to 8:15 AM (12-hours system)
1 Adjust the time to 8:14 AM as previously described.
2 Press CLOCK set button and M button simultaneously with the radio or telephone time signal, and then release.

To advance the minute digits rapidly
Press the H and the M button continuously while holding down the CLOCK set button.

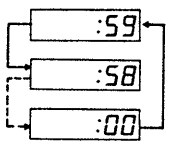
How to Use the Sleep Timer



You can fall asleep to the radio sound knowing that the radio will turn itself off after the preset time period has elapsed.

1 Tune in the desired station after pushing the MANUAL button.
Or select the stationby pressing the FM 1, FM 2 or FM 3 button.
2 Adjust volume.
3 Press the SLEEP button to set the sleep timer operation time.

The radio will be turned on for 59 minutes.
Keep the SLEEP button pressed to reduce the time sequence by one minute.

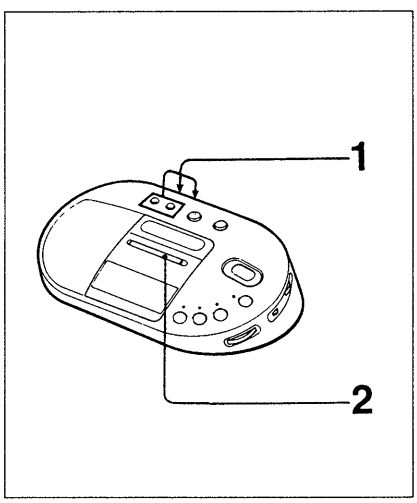


To turn off the radio before the preset time elapses, press the DREAM BAR SNOOZE/SLEEP OFF bar* (which cancels the SLEEP function.)

* { DREAM BAR SNOOZE/SLEEP OFF (US, CND, PA model)
REPEAT ALARM/SLEEP OFF (AEP, E, IT, AUS model)

Note
- If you press the MANUAL, FM 1, FM 2 or FM 3 button, after the SLEEP button has been pressed, the sleep timer function will be released.
- The alarm function does not work while the sleep timer is on.

How to Set the Alarm



Regarding the radio alarm, you can be awakened by a manually tuned station, but cannot be awakened by a preset station.

1 Set the alarm time for radio or buzzer.
Set the radio alarm time with TIME SET H and M while holding down ALARM A RADIO.
Set the buzzer alarm time with TIME SET H and M while holding down ALARM B BUZZER.

To advance the digits rapidly
Press the H and the M button continuously while holding down the ALARM set button.

2 Set the function selector switch to the desired alarm position: SINGLE ALARM A RADIO, SINGLE ALARM B BUZZER, or DUAL ALARM A RADIO B BUZZER.

For radio alarm
Press the MANUAL button,
and tune in the desired station and adjust volume as described in "Radio Operation (Manual Tuning)".

For dual alarm
If you set the radio and the buzzer to the same time, only the radio sound will be heard.
If the buzzer alarm is set to the time before the radio alarm stops, the alarm shifts from radio to buzzer at the alarm preset time, and vice versa.

Notes
- The buzzer sound level is fixed, and independent of the VOL control.
- If the earphone is connected to the earphone jack, at the preset time, the radio will sound from both the earphone and speaker, and the buzzer will sound only from the speaker.

The radio or buzzer will automatically sound at the preset time, and automatically turn itself off after 59 minutes, unless it is turned off manually.

To turn off the alarm manually, press the ALARM RESET/RADIO OFF button. The alarm will sound at the regular preset time on the following day.

Snooze Alarm Function
If you awake to the radio or buzzer but want to doze for a few more minutes, just lightly press DREAM BAR SNOOZE/SLEEP OFF*. The radio or buzzer will be silenced but will automatically come on again after about eight minutes. If you want to doze more, press the bar again.

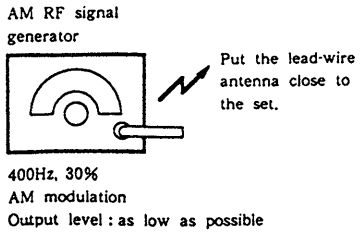
Notes
- You can reset the alarm time while activating the snooze function.
- To cancel the alarm before the alarm time, press the ALARM RESET/RADIO OFF button.
- To read out instantly the alarm preset time, press the ALARM set button A RADIO or B BUZZER.

To Use Both Sleep Timer and Alarm Function

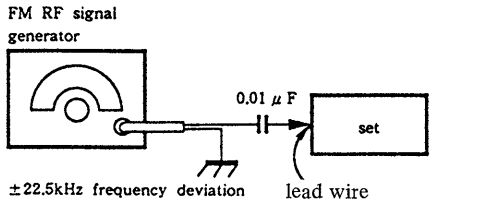
1 Set the alarm. (See "How to Set the Alarm".)
2 Set the sleep timer. (See "How to Use the Sleep Timer".)
3 Set the function selector switch to SINGLE ALARM A RADIO, SINGLE ALARM B BUZZER or DUAL ALARM A RADIO B BUZZER.
You can fall asleep to the radio sound and you will be awakened by the radio/buzzer alarm at the preset time.

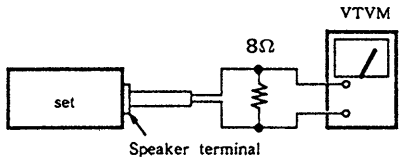
SECTION 2
ELECTRICAL ADJUSTMENTS

AM SECTION



FM SECTION





● Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM	
T1	455 kHz

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM	
L5	520 (520) ⟨516.5⟩ kHz
CT3	1,750 (1,650) ⟨1,631.5⟩ kHz

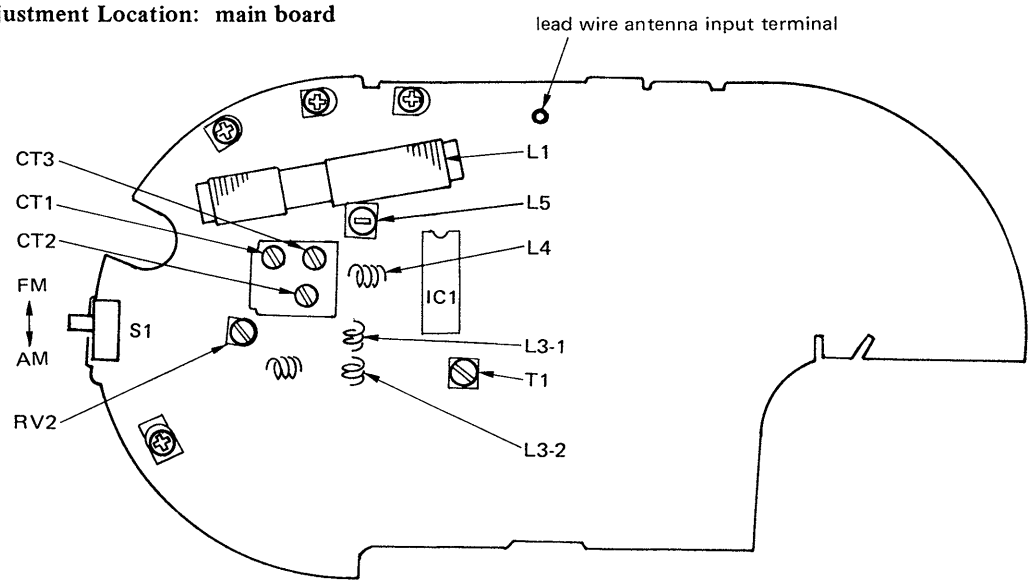
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM	
L1	600 kHz
CT1	1,400 kHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM	
RV2	86.5 (87.35) ⟨87.35⟩ MHz
L4	109.5 (107.9) ⟨108.25⟩ MHz

FM TRACKING ADJUSTMENT	
L3-1, 3-2	86.5 (87.35) ⟨87.35⟩ MHz
CT2	109.5 (107.9) ⟨108.25⟩ MHz

( ): AEP, E, AUS model
⟨ ⟩: IT model

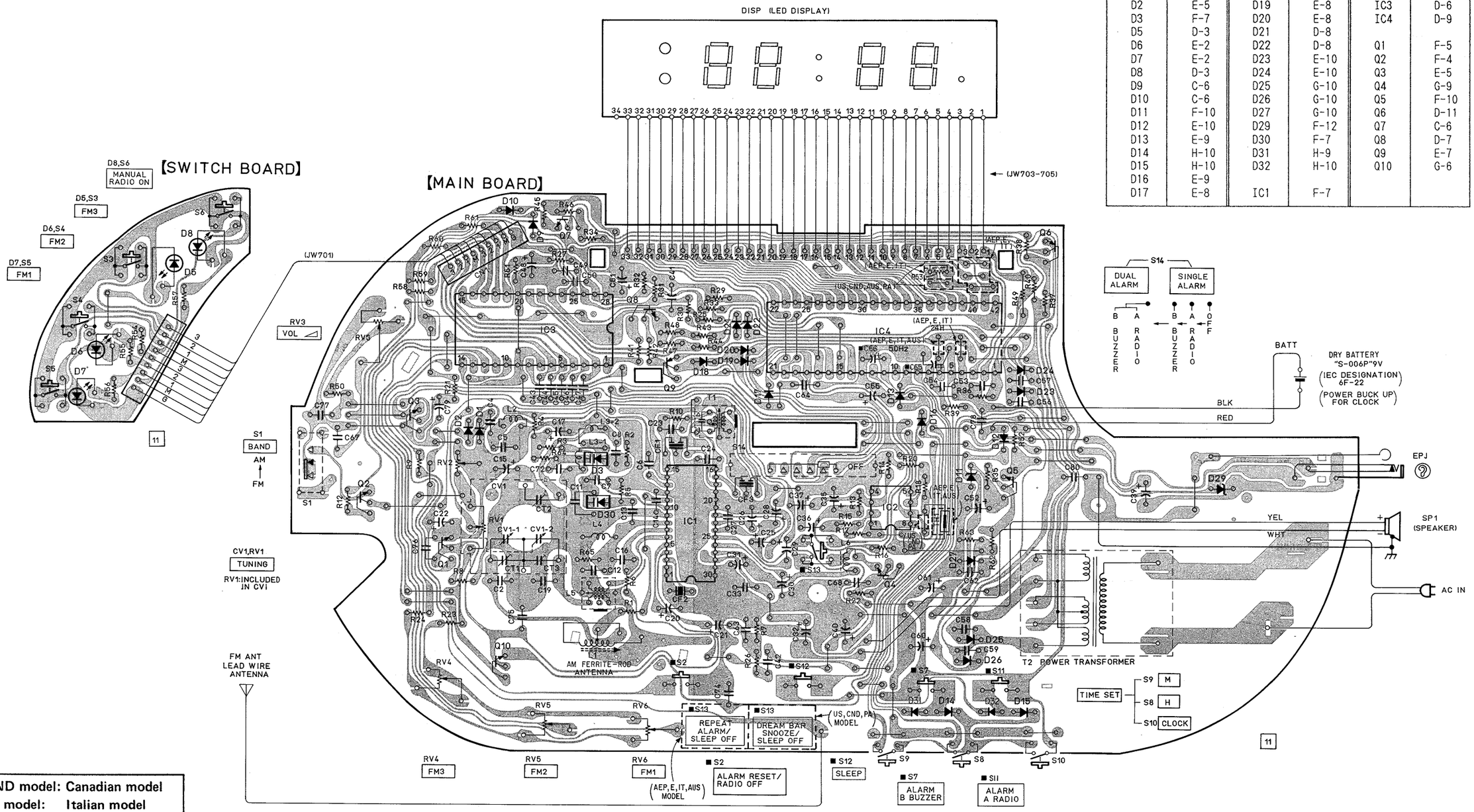
Adjustment Location: main board



SECTION 3
DIAGRAMS

3-1. DESCRIPTION OF IC3 (μPD65005C) PIN FUNCTION

Pin. No.	I/O	Pin. Name	Description
1	Ō	ICC	Output level is "H" while "L" level feed-in to Pin number ② to ⑥ (Clock IC, Alarm, Sleep reset)
2 3 4 5	I I I I	SWM SW3 SW2 SW1	Manual, Preset ① to ③, Input "L"
6	I	OFF	LED Output. Off (L) position for power output terminal. Hold the last channel memory for manual and preset function.
7	-	GND	Ground (L)
8	Ō	VOUT	The terminal for Output level Which selected by analogue switch conjunction with Pin number ② to ⑤.
9	-	GND	Ground
10 11 12 13	I I I I	VRM VR3 VR2 VR1	DC power supply input terminal for set the voltage by manual or preset variable resistor. (1.5 - 5V)
14	-	GND	Ground
15	I	RST	Power ON reset input terminal. More than 150 mSec.
16 17 18 19	Ō Ō Ō Ō	LED1 LED2 LED3 LEDM	LED signal level is come out at "H" level from this terminal with related Pin number ② to ⑤. RED LED is direct drive.
20	-	GND	Ground
21 22	I I	AC1 AC2	Clock input for timing, AC 50Hz/60Hz
23	-	GND	Ground
24	Ō	BAND	Band select signal output terminal for radio. Pin number ② at manual input position - Output level is "H" At the alarm position - Output level is "H" Pin number ③ to ⑤ at preset input position - Output level is "L"
25	Ō	PWR	Output for radio and ON/OFF mute control signal. Output level is "L" at input level feed-in to Pin number ② to ⑤, ㉖ and ㉗. Muting output signal level "H" set to 166.7msec time constant at input level feed-in to Pin number② to ⑤. At 60Hz
26	I	ALM	Should selected first the SWM ② at clock IC alarm signal level "H" feed-in to input terminal. PWR ㉕ Output level "L" → "H" LEDM ⑲ Output level "L" → "H" BAND ㉔ Output level "H" → "H" VOUT ⑧ SWM → SWM
27	I	SLP	Input terminal for clock IC sleep signal. Hold the last channel memory while input level feed-in.
28	-	VDD	Power supply terminal +5 Volts

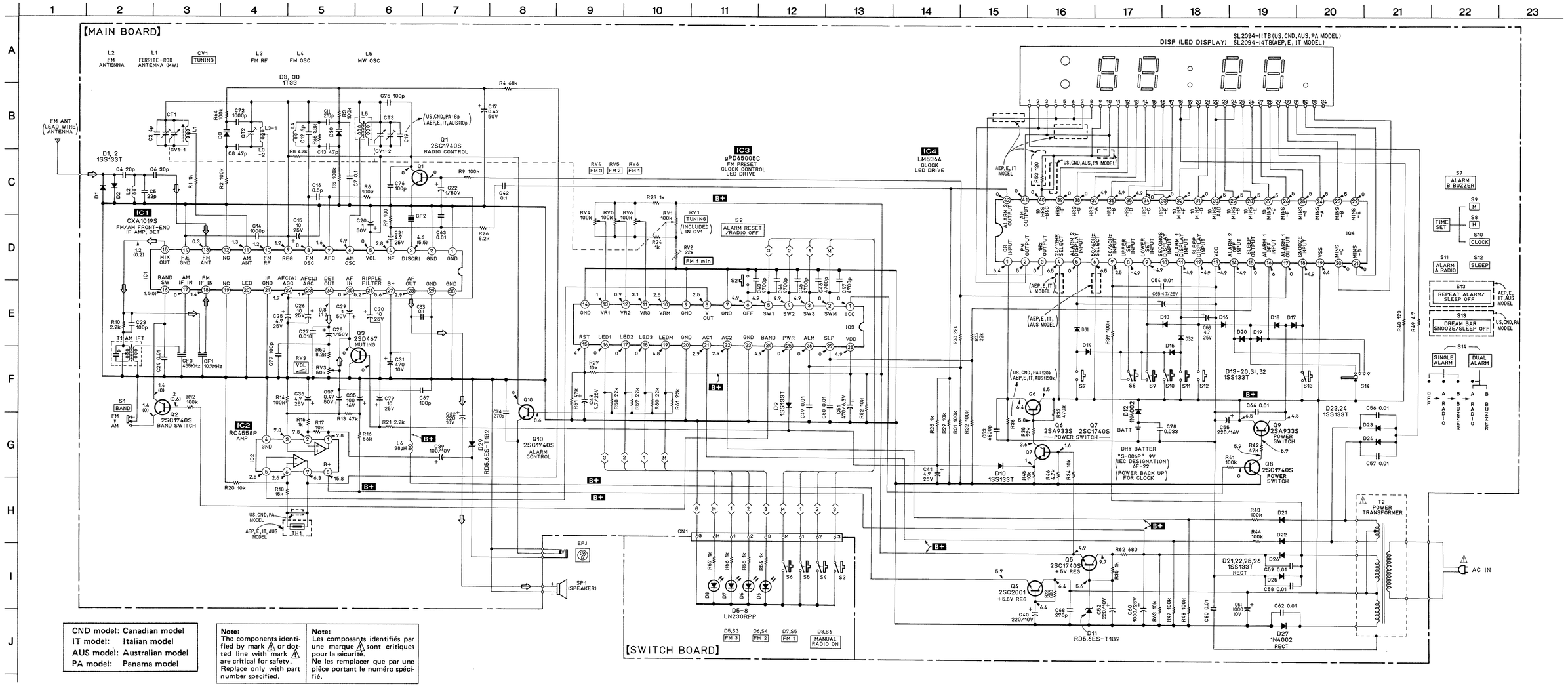


· SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	E-5	D18	E-7	IC2	F-9
D2	E-5	D19	E-8	IC3	D-6
D3	F-7	D20	E-8	IC4	D-9
D5	D-3	D21	D-8		
D6	E-2	D22	D-8	Q1	F-5
D7	E-2	D23	E-10	Q2	F-4
D8	D-3	D24	E-10	Q3	E-5
D9	C-6	D25	G-10	Q4	G-9
D10	C-6	D26	G-10	Q5	F-10
D11	F-10	D27	G-10	Q6	D-11
D12	E-10	D29	F-12	Q7	C-6
D13	E-9	D30	F-7	Q8	D-7
D14	H-10	D31	H-9	Q9	E-7
D15	H-10	D32	H-10	Q10	G-6
D16	E-9				
D17	E-8	IC1	F-7		

CND model: Canadian model
IT model: Italian model
AUS model: Australian model
PA model: Panama model

· ○—— : parts extracted from the component side.
· ■ : parts mounted on the conductor side.
· [ ]→ : indicates side identified with part number.
· ▒▒ : pattern on the side which is seen.



CND model:	Canadian model
IT model:	Italian model
AUS model:	Australian model
PA model:	Panama model

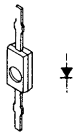
Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

● Semiconductor Lead Layouts

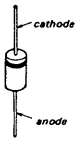
2SA933S-QR
2SC2001-K2

1T33

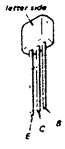


2SC1740S-QR

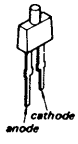
10E2



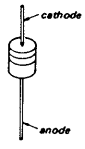
2SD1468S-S



LN230RPP



RD5.6ES-B2
1SS119



Note on schematic diagram.

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- **B+** : B+ lines.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no signal conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM. (input impedance 10 MΩ) Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

SECTION 4
EXPLODED VIEW

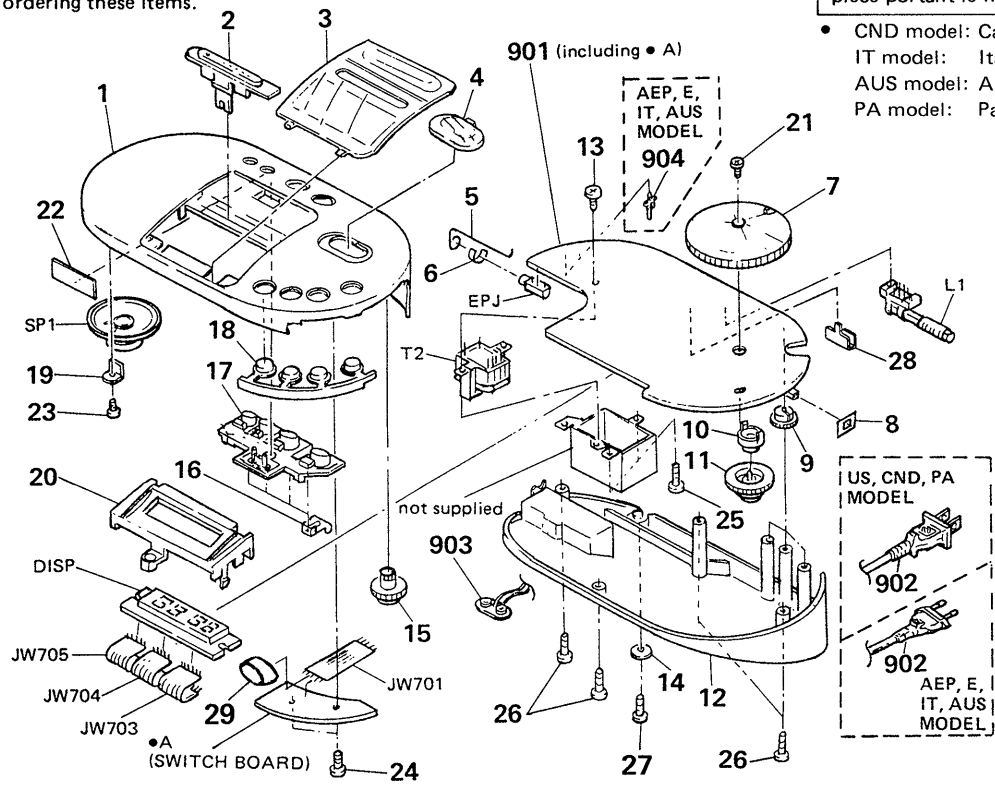
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

- CND model: Canadian model
  IT model: Italian model
  AUS model: Australian model
  PA model: Panama model



No.	Part No.	Description	Remarks
1	3-902-712-21	(WHITE)....CABINET (UPPER)	
	3-902-712-31	(BLACK)....CABINET (UPPER)	
2	3-902-720-01	KNOB (F)	
3	3-902-714-01	(AUS).....PANEL	
	3-902-714-11	(AEP,E,IT)....PANEL	
	3-902-714-21	(US,CND,PA)...PANEL	
4	3-902-715-11	PLATE, INDICATION	
5	3-902-739-01	WIRE (GROUND)	
6	*3-902-738-01	SHEET (GROUND)	
7	3-902-724-11	(AEP,E,IT,AUS)...DRUM, DIAL	
	3-902-724-21	(US,CND,PA).....DRUM, DIAL	
8	*3-902-743-01	SHEET (BAND)	
9	3-902-721-01	(WHITE)...KNOB (P)	
	3-902-721-12	(BLACK)...KNOB (P)	
10	3-902-722-01	HOLDER (VOL)	
11	3-902-719-01	(WHITE)...KNOB (VOL)	
	3-902-719-11	(BLACK)...KNOB (VOL)	
12	3-903-113-01	(US,CND,AEP,IT:WHITE)...CABINET (LOWER) (MADE IN JAPAN)	
	3-903-113-11	(AEP,IT:BLACK)...CABINET (LOWER) (MADE IN JAPAN)	
	3-903-113-21	(AEP,IT:WHITE)...CABINET (LOWER) (MADE IN TAIWAN)	
	3-903-113-31	(AEP,E,IT,AUS:BLACK)...CABINET (LOWER) (MADE IN TAIWAN)	
	3-903-113-41	(US,CND,PA:WHITE).....CABINET (LOWER) (MADE IN TAIWAN)	
13	7-682-547-04	SCREW +PTT 3X6 (S)	
14	3-902-728-01	(WHITE)...STOPPER, CORD	
	3-902-728-11	(BLACK)...STOPPER, CORD	
15	3-902-718-01	(WHITE)...KNOB (TUNE)	
	3-902-718-11	(BLACK)...KNOB (TUNE)	
16	3-902-726-01	PLATE, CONTACT (S2,7,11,12)	
17	3-902-717-01	(WHITE)...BUTTON (C)	
	3-902-717-11	(BLACK)...BUTTON (C)	
18	3-902-716-01	(WHITE)...BUTTON (P)	
	3-902-716-11	(BLACK)...BUTTON (P)	

No.	Part No.	Description	Remarks
19	3-593-019-00	CLAW, SPEAKER	
20	*3-902-723-01	HOLDER (LED)	
21	7-621-773-86	SCREW +P 2.6X4	
22	*3-902-737-01	SHEET, INSULATING	
23	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT	
24	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
25	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	
26	7-685-649-79	SCREW +P 3X14 TYPE2 NON-SLIT	
27	7-685-549-14	SCREW +BTP 3X14 TYPE2 N-S	
28	*3-893-382-01	PLATE (SFU), SHIELD	
29	*3-723-073-01	CUSHION	
901	*A-3806-065-A	(US,CND,PA)...MOUNTED PCB, MAIN (HAND)	
	*A-3806-075-A	(AEP,E,IT)....MOUNTED PCB, MAIN (HAND)	
	*A-3806-126-A	(AUS).....MOUNTED PCB, MAIN (HAND)	
902	⚠.1-555-795-00	(AEP,IT).....CORD, POWER	
	⚠.1-558-566-21	(US,CND,PA)...CORD, POWER	
	⚠.1-559-912-11	(AUS).....CORD, POWER	
	⚠.1-574-158-11	(E).....CORD, POWER	
903	1-535-253-00	SNAP, BATTERY	
904	*1-535-688-11	(AEP,E,IT,AUS)...TERMINAL	
DISP	8-719-975-68	(US,CND,AUS,PA)...DIODE SL2094-11TB (LED DISPLAY)	
DISP	8-719-975-69	(AEP,E,IT)...DIODE SL2094-14TB (LED DISPLAY)	
EPJ	1-563-836-21	JACK (EARPHONE)	
JW701	1-575-398-11	CORD, CONNECTION (9-CORE RIBBON)	
JW703	1-575-159-21	CORD, CONNECTION (11-CORE RIBBON)	
JW704	1-575-159-21	CORD, CONNECTION (11-CORE RIBBON)	
JW705	1-575-159-21	CORD, CONNECTION (11-CORE RIBBON)	
L1	1-402-464-11	(US,CND,PA).....ANTENNA, FERRITE-ROD(MW)	
L1	1-402-472-11	(AEP,E,IT,AUS)...ANTENNA, FERRITE-ROD(MW)	
SP1	1-503-082-00	SPEAKER	
T2	⚠.1-449-528-11	(US,CND,PA)...TRANSFORMER, POWER	
T2	⚠.1-449-529-11	(AEP,E,IT)....TRANSFORMER, POWER	
T2	⚠.1-449-530-11	(AUS).....TRANSFORMER, POWER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- CND model: Canadian model
  IT model: Italian model
  AUS model: Australian model
  PA model: Panama model

Ref.No.	Part No.	Description			
901	*A-3806-065-A	(US,CND,PA)...MOUNTED PCB, MAIN (HAND)			
	*A-3806-075-A	(AEP,E,IT)....MOUNTED PCB, MAIN (HAND)			
	*A-3806-126-A	(AUS).....MOUNTED PCB, MAIN (HAND)			
902	⚠1-555-795-00	(AEP,IT).....CORD, POWER			
	⚠1-558-566-21	(US,CND,PA)...CORD, POWER			
	⚠1-559-912-11	(AUS).....CORD, POWER			
	⚠1-574-158-11	(E).....CORD, POWER			
903	1-535-253-00	SNAP, BATTERY			
904	*1-535-688-11	(AEP,E,IT,AUS)...TERMINAL			
C2	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C4	1-162-206-31	CERAMIC	20PF	5%	50V
C5	1-102-959-00	CERAMIC	22PF	5%	50V
C6	1-102-962-00	CERAMIC	30PF	5%	50V
C7	1-162-851-11	CERAMIC	0.1MF	20%	16V
C8	1-101-880-00	CERAMIC	47PF	5%	50V
C11	1-102-980-00	CERAMIC	270PF	5%	50V
C12	1-102-943-00	CERAMIC	6PF	0.5PF	50V
C13	1-101-880-00	CERAMIC	47PF	5%	50V
C14	1-161-039-00	CERAMIC	0.001MF	10%	25V
C15	1-126-096-11	ELECT	10MF	20%	25V
C16	1-101-837-00	CERAMIC	0.5PF	0.25PF	50V
C17	1-124-902-00	ELECT	0.47MF	20%	50V
C19	1-102-945-00	(US,CND,PA)...CERAMIC	8PF	0.5PF	50V
C19	1-102-947-00	(AEP,E,IT,AUS) ...CERAMIC	10PF	0.5PF	50V
C20	1-124-791-11	ELECT	1MF	20%	50V
C21	1-126-094-11	ELECT	4.7MF	20%	25V
C22	1-124-791-11	ELECT	1MF	20%	50V
C23	1-102-973-00	CERAMIC	100PF	10%	50V
C24	1-161-051-00	CERAMIC	0.01MF	10%	25V
C25	1-126-094-11	ELECT	4.7MF	20%	25V
C26	1-126-096-11	ELECT	10MF	20%	25V
C27	1-161-054-00	CERAMIC	0.018MF	10%	25V
C28	1-124-791-11	ELECT	1MF	20%	50V
C29	1-124-791-11	ELECT	1MF	20%	50V
C30	1-126-096-11	ELECT	10MF	20%	25V
C31	1-124-472-11	ELECT	470MF	20%	10V
C32	1-126-176-11	ELECT	220MF	20%	10V
C33	1-162-851-11	CERAMIC	0.1MF	20%	16V
C35	1-126-101-11	ELECT	100MF	20%	16V
C36	1-126-094-11	ELECT	4.7MF	20%	25V
C37	1-124-902-00	ELECT	0.47MF	20%	50V
C39	1-124-443-00	ELECT	100MF	20%	10V
C40	1-126-176-11	ELECT	220MF	20%	10V
C41	1-126-094-11	ELECT	4.7MF	20%	25V
C42	1-162-851-11	CERAMIC	0.1MF	20%	16V
C43	1-161-377-00	CERAMIC	0.0047MF	30%	16
C44	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C45	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C46	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C47	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C48	1-126-094-11	ELECT	4.7MF	20%	25V
C49	1-101-004-00	CERAMIC	0.01MF		50V
C50	1-101-004-00	CERAMIC	0.01MF		50V
C51	1-124-472-11	ELECT	470MF	20%	6.3V
C52	1-126-176-11	ELECT	220MF	20%	10V
C53	1-106-363-00	MYLAR	0.0068MF	5%	50V
C54	1-101-004-00	CERAMIC	0.01MF		50V
C55	1-124-120-11	ELECT	220MF	20%	16V
C56	1-101-004-00	CERAMIC	0.01MF		50V
C57	1-101-004-00	CERAMIC	0.01MF		50V
C58	1-101-004-00	CERAMIC	0.01MF		50V
C59	1-101-004-00	CERAMIC	0.01MF		50V
C60	1-124-557-11	ELECT	1000MF	20%	25V
C61	1-124-473-11	ELECT	1000MF	20%	10V
C62	1-101-004-00	CERAMIC	0.01MF		50V
C63	1-161-051-00	CERAMIC	0.01MF	10%	25V
C64	1-101-004-00	CERAMIC	0.01MF		50V
C65	1-126-094-11	ELECT	4.7MF	20%	25V
C66	1-126-094-11	ELECT	4.7MF	20%	25V
C67	1-162-282-31	CERAMIC	100PF	10%	50V
C68	1-102-980-00	CERAMIC	270PF	5%	50V
C72	1-161-039-00	CERAMIC	0.001MF	10%	25V
C74	1-102-980-00	CERAMIC	270PF	5%	50V
C75	1-102-973-00	CERAMIC	100PF	10%	50V
C76	1-102-973-00	CERAMIC	100PF	10%	50V
C77	1-162-282-31	CERAMIC	100PF	10%	50V
C78	1-161-057-00	CERAMIC	0.033MF	10%	25V
C79	1-126-096-11	ELECT	10MF	20%	25V
C80	1-161-379-00	CERAMIC	0.01MF	30%	16V
CF1, CF2	1-567-166-00	FILTER, CERAMIC (10.7MHz)			
CF3	1-577-072-11	FILTER, CERAMIC (455kHz)			
CN1	*1-568-275-11	SOCKET, CONNECTOR 9P			
CT1-3, CV1, RV1	1-151-645-11	(AEP,E,IT,AUS)...CAP, VAR, POLYETHYLENE (WITH VR)			
CT1-3, CV1, RV1	1-151-646-11	(US,CND,PA)...CAP, VAR, POLYETHYLENE (WITH VR)			

Ref.No.	Part No.	Description
D1	8-719-911-19	DIODE 1SS119
D2	8-719-911-19	DIODE 1SS119
D3	8-713-300-57	DIODE 1T33
D5	8-719-421-00	DIODE LN230RPP (FM 3)
D6	8-719-421-00	DIODE LN230RPP (FM 2)
D7	8-719-421-00	DIODE LN230RPP (FM 1)
D8	8-719-421-00	DIODE LN230RPP (MANUAL RADIO ON)
D9	8-719-911-19	DIODE 1SS119
D10	8-719-911-19	DIODE 1SS119
D11	8-719-109-89	DIODE RD5.6ES-B2
D12	8-719-200-02	DIODE 10E2
D13	8-719-911-19	DIODE 1SS119
D14	8-719-911-19	DIODE 1SS119
D15	8-719-911-19	DIODE 1SS119
D16	8-719-911-19	DIODE 1SS119
D17	8-719-911-19	DIODE 1SS119
D18	8-719-911-19	DIODE 1SS119
D19	8-719-911-19	DIODE 1SS119
D20	8-719-911-19	DIODE 1SS119
D21	8-719-911-19	DIODE 1SS119
D22	8-719-911-19	DIODE 1SS119
D23	8-719-911-19	DIODE 1SS119
D24	8-719-911-19	DIODE 1SS119
D25	8-719-911-19	DIODE 1SS119
D26	8-719-911-19	DIODE 1SS119
D27	8-719-200-02	DIODE 10E2
D29	8-719-109-89	DIODE RD5.6ES-B2
D30	8-713-300-57	DIODE 1T33
D31	8-719-911-19	DIODE 1SS119
D32	8-719-911-19	DIODE 1SS119
DISP	8-719-975-68	(US,CND,AUS,PA)...DIODE SL2094-11TB (LED DISPLAY)
DISP	8-719-975-69	(AEP,E,IT)...DIODE SL2094-14TB (LED DISPLAY)
EPJ	1-563-836-21	JACK (EARPHONE)
IC1	8-752-035-29	IC CXA1019S
IC2	8-759-945-58	IC RC4558P
IC3	8-759-147-16	IC UPD65005C-U03
IC4	8-759-821-56	IC LM8364DG
JW701	1-575-398-11	CORD, CONNECTION (9-CORE RIBBON)
JW703	1-575-159-21	CORD, CONNECTION (11-CORE RIBBON)
JW704	1-575-159-21	CORD, CONNECTION (11-CORE RIBBON)
JW705	1-575-159-21	CORD, CONNECTION (11-CORE RIBBON)

Ref.No.	Part No.	Description
L1	1-402-464-11	(US,CND,PA).....ANTENNA, FERRITE-ROD(MW)
L1	1-402-472-11	(AEP,E,IT,AUS)..ANTENNA, FERRITE-ROD(MW)
L2	1-401-228-00	ANTENNA COIL (FM)
L3-1	1-426-014-00	COIL, FM RF
L3-2	1-428-102-11	COIL, AIR-CORE, FM RF
L4	*1-422-321-11	(US,CND,PA).....COIL, AIR-CORE, FM OSC
L4	*1-460-025-11	(AEP,E,IT,AUS)..COIL(WITH CORE) FM OSC
L5	1-406-028-00	COIL, OSC (MW)
L6	1-410-294-11	INDUCTOR, MICRO (38UH)
Q1	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q2	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q3	8-729-907-34	TRANSISTOR 2SD1468S-S
Q4	8-729-100-13	TRANSISTOR 2SC2001-K2
Q5	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q6	8-729-920-68	TRANSISTOR 2SA933S-QR
Q7	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q8	8-729-920-70	TRANSISTOR 2SC1740S-QR
Q9	8-729-920-68	TRANSISTOR 2SA933S-QR
Q10	8-729-920-70	TRANSISTOR 2SC1740S-QR
R1	1-249-417-11	CARBON 1K 5% 1/4W
R2	1-249-441-11	CARBON 100K 5% 1/4W
R3	1-249-441-11	CARBON 100K 5% 1/4W
R4	1-249-439-11	CARBON 68K 5% 1/4W
R5	1-249-441-11	CARBON 100K 5% 1/4W
R6	1-249-441-11	CARBON 100K 5% 1/4W
R7	1-249-405-11	CARBON 100 5% 1/4W
R8	1-249-425-11	CARBON 4.7K 5% 1/4W
R9	1-249-441-11	CARBON 100K 5% 1/4W
R10	1-249-421-11	CARBON 2.2K 5% 1/4W
R12	1-249-441-11	CARBON 100K 5% 1/4W
R13	1-249-437-11	CARBON 47K 5% 1/4W
R14	1-249-441-11	CARBON 100K 5% 1/4W
R15	1-249-417-11	CARBON 1K 5% 1/4W
R16	1-249-438-11	CARBON 56K 5% 1/4W
R17	1-249-429-11	CARBON 10K 5% 1/4W
R18	1-249-431-11	CARBON 15K 5% 1/4W
R20	1-249-429-11	CARBON 10K 5% 1/4W
R21	1-249-421-11	CARBON 2.2K 5% 1/4W
R22	1-249-415-11	CARBON 680 5% 1/4W
R23	1-249-417-11	CARBON 1K 5% 1/4W
R24	1-249-417-11	CARBON 1K 5% 1/4W
R25	1-249-417-11	CARBON 1K 5% 1/4W
R26	1-249-428-11	CARBON 8.2K 5% 1/4W

Ref.No.	Part No.	Description			
R27	1-249-429-11	CARBON	10K	5%	1/4W
R29	1-249-429-11	CARBON	10K	5%	1/4W
R30	1-249-433-11	CARBON	22K	5%	1/4W
R31	1-249-441-11	CARBON	100K	5%	1/4W
R32	1-249-441-11	CARBON	100K	5%	1/4W
R33	1-249-433-11	CARBON	22K	5%	1/4W
R34	1-249-429-11	CARBON	10K	5%	1/4W
R35	1-249-417-11	CARBON	1K	5%	1/4W
R36	1-247-881-00	(US,CND,PA).....CARBON	120K	5%	1/4W
R36	1-247-883-00	(AEP,E,IT,AUS)..CARBON	150K	5%	1/4W
R37	1-247-895-00	CARBON	470K	5%	1/4W
R38	1-249-433-11	CARBON	22K	5%	1/4W
R39	1-249-441-11	CARBON	100K	5%	1/4W
R40	1-249-406-11	CARBON	120	5%	1/4W
R41	1-249-441-11	CARBON	100K	5%	1/4W
R42	1-249-437-11	CARBON	47K	5%	1/4W
R43	1-249-441-11	CARBON	100K	5%	1/4W
R44	1-249-441-11	CARBON	100K	5%	1/4W
R45	1-249-429-11	CARBON	10K	5%	1/4W
R46	1-249-425-11	CARBON	4.7K	5%	1/4W
R47	1-249-441-11	CARBON	100K	5%	1/4W
R48	1-249-441-11	CARBON	100K	5%	1/4W
R49	1-249-455-11	CARBON	4.7	5%	1/4W
R50	1-249-428-11	CARBON	8.2K	5%	1/4W
R51	1-249-437-11	CARBON	47K	5%	1/4W
R52	1-249-429-11	CARBON	10K	5%	1/4W
R53	1-249-406-11	(AEP,E,IT)...CARBON	120	5%	1/4W
R54	1-249-417-11	CARBON	1K	5%	1/4W
R55	1-249-417-11	CARBON	1K	5%	1/4W
R56	1-249-417-11	CARBON	1K	5%	1/4W
R57	1-249-417-11	CARBON	1K	5%	1/4W
R58	1-249-433-11	CARBON	22K	5%	1/4W
R59	1-249-433-11	CARBON	22K	5%	1/4W
R60	1-249-433-11	CARBON	22K	5%	1/4W
R61	1-249-433-11	CARBON	22K	5%	1/4W
R62	1-249-415-11	CARBON	680	5%	1/4W
R63	1-249-429-11	CARBON	10K	5%	1/4W
R64	1-249-441-11	CARBON	100K	5%	1/4W
R65	1-249-423-11	CARBON	3.3K	5%	1/4W
RV2	1-228-995-00	RES, ADJ, CARBON 22K			
RV3	1-228-790-00	RES, VAR, CARBON 50K (VOL)			
RV4	1-238-517-11	RES, ADJ, CARBON 100K (FM 3)			
RV5	1-238-517-11	RES, ADJ, CARBON 100K (FM 2)			
RV6	1-238-517-11	RES, ADJ, CARBON 100K (FM 1)			

Ref.No.	Part No.	Description
S1	1-552-370-00	SWITCH, SLIDE (BAND)
S3	1-571-527-11	SWITCH, KEY BOARD (FM 3)
S4	1-571-527-11	SWITCH, KEY BOARD (FM 2)
S5	1-571-527-11	SWITCH, KEY BOARD (FM 1)
S6	1-571-527-11	SWITCH, KEY BOARD (MANUAL RADIO ON)
S8	1-554-088-00	SWITCH, KEY BOARD (TIME SET H)
S9	1-554-088-00	SWITCH, KEY BOARD (TIME SET M)
S10	1-554-088-00	SWITCH, KEY BOARD (TIME SET CLOCK)
S13	1-571-527-11	SWITCH, KEY BOARD (SNOOZE)
S14	1-572-133-11	SWITCH, SLIDE (FUNCTION)
SP1	1-503-082-00	SPEAKER
T1	1-404-341-00	TRANSFORMER, IF (455kHz)
T2	⚠1-449-528-11	(US,CND,PA)...TRANSFORMER, POWER
T2	⚠1-449-529-11	(AEP,E,IT)....TRANSFORMER, POWER
T2	⚠1-449-530-11	(AUS).....TRANSFORMER, POWER
TH1	1-808-954-21	(AEP,E,IT,AUS)...THERMISTOR

ACCESSORY & PACKING MATERIAL

3-751-388-11	(AEP,E)...MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH)
3-751-388-21	(US,CND,AUS,PA)...MANUAL, INSTRUCTION (ENGLISH)
3-751-388-31	(CND).....MANUAL, INSTRUCTION (FRENCH)
3-751-388-41	(AEP).....MANUAL, INSTRUCTION (DUTCH,SWEDISH,PORTUGUESE)
3-751-388-51	(IT).....MANUAL, INSTRUCTION (ENGLISH,ITALIAN)
*3-902-745-01	CUSHION
*3-902-706-11	(US)...INDIVIDUAL CARTON (MADE IN JAPAN)
*3-902-706-21	(US,PA)....INDIVIDUAL CARTON (MADE IN TAIWAN)
*3-902-730-11	(CND,AEP,IT)...INDIVIDUAL CARTON (MADE IN JAPAN)
*3-902-730-11	(E)... INDIVIDUAL CARTON(MADE IN TAIWAN)
*3-902-730-21	(AEP)..INDIVIDUAL CARTON(MADE IN TAIWAN)
*3-902-730-22	(CND,IT)...INDIVIDUAL CARTON (MADE IN TAIWAN)
*3-902-771-01	(AUS)..INDIVIDUAL CARTON(MADE IN TAIWAN)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-955-625-13

Sony Corporation
General Audio Group

English
90F0615-1
Printed in Japan
©1990.6
Published by Customer Relations and Service Group